

Drug Analysis Laboratory  
QC - IR Spectrophotometer

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

A. Frequency Check - Polystyrene (Bi-monthly):

2850  $\pm$  6  $\text{cm}^{-1}$   
1601  $\pm$  3  $\text{cm}^{-1}$   
907  $\pm$  3  $\text{cm}^{-1}$

Date: \_\_\_\_\_  
1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. 100% Line (FTIR Only) (Bi-monthly):

\_\_\_\_\_  $\text{cm}^{-1}$   
\_\_\_\_\_  $\text{cm}^{-1}$

\_\_\_\_\_  
\_\_\_\_\_

C. Alignment (FTIR Only):

1. Background Profile (Monthly)
2. Interferogram (Quarterly)

D. Photometric Reproducibility (Monthly):

(Scans must be within 2% of reproducibility)

E. Baseline Stability (Quarterly):

(< 5% between 4000  $\text{cm}^{-1}$  and 650  $\text{cm}^{-1}$ )

F. Resolution (Quarterly):

(Presence of a smaller peak on the low frequency side of 1601 peak)

G. Cocaine HCL / Cocaine Base Scans (Quarterly):

Cocaine HCL  
( $\pm$  5  $\text{cm}^{-1}$ )

1736  
1710  
1276  
1111

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1739  
1708  
1276  
1110  
713

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_

Drug Analysis Laboratory  
QC - IR Spectrophotometer

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_

2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Cocaine Base**

( $\pm 5 \text{ cm}^{-1}$ )

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Reference: Quality Assurance Program (December 1983), B.L. Karger, L. Gelber

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Drug Analysis Laboratory  
QC - IR Spectrophometer

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

A. Frequency Check - External Polystyrene (Bi-annually):

2850  $\pm$  2 cm<sup>-1</sup>  
1601  $\pm$  2 cm<sup>-1</sup>  
907  $\pm$  2 cm<sup>-1</sup>

Date: \_\_\_\_\_  
1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Frequency Check - Internal Polystyrene (Bi-monthly):

2850  $\pm$  2 cm<sup>-1</sup>  
1601  $\pm$  2 cm<sup>-1</sup>  
907  $\pm$  2 cm<sup>-1</sup>

Date: \_\_\_\_\_  
1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Cocaine HCL / Cocaine Base Scans (Quarterly):

Cocaine HCL  
( $\pm$  2 cm<sup>-1</sup>)

KBR Blank

1727  
1711  
1265  
1105

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_

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Drug Analysis Laboratory  
QC - IR Spectrophometer

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_  
2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_  
2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Cocaine Base**  
( $\pm 2 \text{ cm}^{-1}$ )

1735  
1707  
1274  
1108  
775

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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